

Title (en)
High-performance mixtures of surfactants and laundry detergent compositions thereof

Title (de)
Leistungsstarke Tensidmischung und Waschmittel enthaltend diese

Title (fr)
Mélange des agents tensioactifs à haute performance et lessive le contenant

Publication
EP 2716747 B1 20190814 (DE)

Application
EP 13185863 A 20130925

Priority
DE 102012218020 A 20121002

Abstract (en)
[origin: EP2716747A1] Surfactant mixture comprises at least one anionic surfactant, and 10-90 wt.% of at least one nonionic surfactant (I). Surfactant mixture comprises at least one anionic surfactant, and 10-90 wt.% of at least one nonionic surfactant of formula (R1O-(G) p) (I). R1 : -(CH 2) 7-CH 3 or -(CH 2) 9-CH 3; G : sugar radical having 5 or 6 carbon atoms, preferably glucose unit; and p : 1-10, preferably 1.55-1.65. Independent claims are included for: (1) a washing or cleaning agent comprising at least one anionic surfactant, and 10-90 wt.% of at least one nonionic surfactant; and (2) use of nonionic surfactants to increase the washing power of greasy soils at temperature of less than 40[deg] C.

IPC 8 full level
C11D 1/83 (2006.01); **C11D 10/04** (2006.01)

CPC (source: EP)
C11D 1/83 (2013.01); **C11D 10/04** (2013.01); **C11D 1/146** (2013.01); **C11D 1/29** (2013.01); **C11D 1/662** (2013.01); **C11D 1/72** (2013.01)

Citation (opposition)
Opponent : The Procter & Gamble Company
• US 7297675 B2 20071120 - ALLEF PETRA [DE], et al
• US 7939487 B2 20110510 - SCHEUING DAVID R [US], et al
• US 5599787 A 19970204 - SCHMID KARL [DE], et al
• COGNIS: "Alkyl Polyglucosides(APGO)", COGNIS - TECHNICAL BROCHURE, April 2005 (2005-04-01), XP055698714
• JOHANSSON I. ET AL: "Environmentally benign nonionic surfactant systems for use in highly alkaline media", PROGRESS COLLOID POLYM SCI, vol. 116, 2000, pages 26 - 32, XP055698717
• HOLMBERG K. ET AL: "Surfactant science and technology", 5 May 2014, article "Chapter 15 Hydrotropes Structure and Function", pages: 399 - 408, XP055698719
• ANNA MATERO ET AL: "Alkyl Polyglucosides as Hydrotropes", JOURNAL OF SURFACTANTS AND DETERGENTS, vol. 1, no. 4, October 1998 (1998-10-01), pages 485 - 489, XP055081737

Cited by
EP2706109A3; WO2024002922A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2716747 A1 20140409; EP 2716747 B1 20190814; DE 102012218020 A1 20140403

DOCDB simple family (application)
EP 13185863 A 20130925; DE 102012218020 A 20121002